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NOTICE OF ALLOWANCE AND FEE(S) DUE

26574

7590

07/25/2008

SCHIFF HARDIN, LLP PATENT DEPARTMENT 6600 SEARS TOWER CHICAGO, IL 60606-6473 EXAMINER

LEWIS, CHERYL RENEA

ART UNIT PAPER NUMBER

2167

DATE MAILED: 07/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,118	05/16/2005	Karl Barth	P05,0168	3622

TITLE OF INVENTION: METHOD FOR DEPICTING AN OBJECT DISPLAYED IN A VOLUME DATA SET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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SCHIFF HAR PATENT DEPA 6600 SEARS TO	ARTMENT OWER	I h Sta ado tra	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
CHICAGO, IL 6	60606-6473						(Depositor's name)	
			L				(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	3	ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.	
10/535,118	05/16/2005		Karl Barth			P05,0168	3622	
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LEWIS, CHERYL RENEA 2167			707-102000	_				
CFR 1.363). Change of corresp Address form PTO/S. "Fee Address" ind	ence address or indicatio condence address (or Cha B/122) attached. lication (or "Fee Address O2 or more recent) attach	(1) the names of up t or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing ar (B) RESIDENCE: (CIT	patent. If an assign assignment. Y and STATE OR (COUNT	RY)	cument has been filed for	
Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporati	on or other private gro	up entity Government	
4a. The following fee(s)	are submitted:	41	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)					
☐ Issue Fee ☐ Publication Fee (1)	No small entity discount r	permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
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SCHIFF HARD	IN, LLP	LEWIS, CHERYL RENEA				
PATENT DEPA		ART UNIT	PAPER NUMBER			
6600 SEARS TO			2167			
CHICAGO, IL 60606-6473				DATE MAILED: 07/25/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 374 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 374 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/525 110			
Notice of Allowability	10/535,118 Examiner	BARTH, KARL Art Unit		
·	OLIEDVILLENIIO	0407		
	CHERYL LEWIS	2167		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due cours	se. THIS	
1. \boxtimes This communication is responsive to <u>the applicant's comm</u>	nunication received on April	<u>23, 2008</u> .		
2. X The allowed claim(s) is/are 13-28, renumbered as claims	<u>1-16</u> .			
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 		or (f).		
2. ☐ Certified copies of the priority documents have		on No		
Copies of the certified copies of the priority do	•		rom the	
International Bureau (PCT Rule 17.2(a)).		a iii ano halional dago appiloalion i		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments	
 A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv 			CE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.			
(a) 🔲 including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			k) of	
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			the	
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 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		iformal Patent Application ummary (PTO-413),		
	Paper No.	/Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 		Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance			
	9. 🗌 Other	<u>-</u> ·		
	/Cheryl Lewis/ Primary Examiner July 18, 2008	, Art Unit 2167		

DETAILED ACTION

1. Claims 13-28 are allowed.

2. Claims 1-12 were cancelled in the Preliminary Amendment filed on May 16,

2005.

Drawings

3. Replacement drawing figure 1 filed on May 16, 2005 and drawings figures 2-5 filed on May 16, 2005 are accepted by the Examiner.

REASONS FOR ALLOWANCE

4. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not render obvious to one ordinarily skilled in the art at the time of applicant's invention nor anticipate the combination of claimed elements including "generating a second volume data set from the first volume data set in which the volume elements of the first volume data set are at least one of depth-dependently modulated and coded parallel to a main observation direction along a coordinate axis of running into the first volume data set" and "outputting, on a display, an image based on the second volume data set" as recited in independent claim 13.

The claimed volume data set is interpreted as a three-dimensional pictorial illustration (see figures 2 and 3 of Publication No. 20060152502). Also, the volume data set is, for example, interpreted as slices parallel to the table 7 for the application in minimally-invasive surgery/laparoscopy. These slices are interpreted as textures or interpolated multi-textures and accounted for in a 3D representation (see Publication No. 20060152502, ¶ 0036 and 0037).

The remaining claims, 14-28, are dependent claims, thus these claims are patently distinct over the art of record for at least the above reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

NAME OF CONTACT

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheryl Lewis whose telephone number is (571) 272-4113. The examiner can normally be reached on 6:30-3:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Art Unit: 2167

(571) 273-4113 (Use this FAX #, only after approval by Examiner, for "INFORMAL" or "DRAFT" communication. Examiners may request that a formal paper/amendment be faxed directly to them on occasions.).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/ Technology Center (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cheryl Lewis/ Patent Examiner, Art Unit 2167 July 18, 2008